SEQUENCE LISTING

<110> Scala, Giuseppe
Chen, Xueni
Cohen, Oren J.
Fauci, Anthony
The Government of the United States of America
as represented by the Secretary of the
Department of Health and Human Services

<120> Novel HIV Related Peptides

<130> 015280-386200US

<140> US 09/869,003
<141> 2001-06-22

<150> US 60/115,430
<151> 1999-01-11

<150> US 60/132,760
<151> 1999-05-06

<150> WO PCT/US00/00372
<151> 2000-01-07

<160> 34

<170> PatentIn Ver. 2.1

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<223> Description of Artificial Sequence:antigenic
determinant peptide

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<221> MOD_RES
<222> (1)
<223> Xaa = any amino acid not identical to the amino
acid naturally flanking the subsequence at positions
2-10 in HIV-1

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acid naturally flanking the subsequence at positions
2-10 in HIV-1

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<220>
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<222> (11)
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<400> 3
Xaa Gly Thr Lys Leu Val Cys Phe Ala Ala Xaa
1 5 10

<210> 4
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<223> Description of Artificial Sequence:p195 epitope
antigenic determinant peptide

<400> 4
Lys Ser Ser Gly Lys Leu Ile Ser Leu
1 5

<210> 5
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<223> Description of Artificial Sequence:p217 epitope
antigenic determinant peptide

<400> 5
Cys Asn Gly Arg Leu Tyr Cys Gly Pro
1 5

<210> 6
<211> 9
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:p197 epitope
antigenic determinant peptide

<400> 6
Gly Thr Lys Leu Val Cys Phe Ala Ala
1 5

<210> 7
<211> 9
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:antigenic
determinant peptide

<400> 7
Glu Ala Thr Val Val Tyr Pro Ala Pro
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<210> 8
<211> 9
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:p54 epitope
with no obvious sequence homology with HIV protein
domains

<400> 8
Thr Lys Thr Leu Ile Tyr Gly Gly Ala
1 5

<210> 9
<211> 9
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<220>
<223> Description of Artificial Sequence:p163 epitope with no obvious sequence homology with HIV protein domains

<400> 9
Lys Arg Ile Val Ile Gly Pro Gln Thr
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Ser Gly Arg Leu Tyr Cys His Glu Ser Trp
1 5 10

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Phe Ala Leu Ser His Tyr Asp Lys Pro
1 5

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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:p689 epitope
with no obvious sequence homology with HIV protein
domains

<400> 13
Arg Pro Thr Leu Arg Phe Gln Gly Ala
1 5

<210> 14
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<220>
<223> Description of Artificial Sequence:p195 analog
antigenic determinant peptide

<400> 14
Glu Gly Glu Phe Cys Lys Ser Ser Gly Lys Leu Ile Ser Leu Cys Gly
1 5 10 15

Asp Pro Ala Lys
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antigenic determinant peptide

<400> 15
Glu Gly Glu Phe Cys Gln Thr Lys Leu Val Cys Phe Ala Ala Ala Gly
1 5 10 15

Asp Pro Ala Lys
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<210> 16
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<220>
<223> Description of Artificial Sequence:p217 analog
antigenic determinant peptide

<400> 16
Glu Gly Glu Phe Cys Cys Asn Gly Arg Leu Tyr Cys Gln Pro Cys Gly
1 5 10 15

Asp Pro Ala Lys
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<210> 17
<211> 20
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<220>
<223> Description of Artificial Sequence:p287 analog
antigenic determinant peptide

<400> 17
Glu Gly Glu Phe Cys Cys Ala Gly Gln Leu Thr Cys Ser Val Cys Gly
1 5 10 15

Asp Pro Ala Lys
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<210> 18
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<220>
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antigenic determinant peptide

<400> 18
Cys Ser Gly Arg Leu Tyr Cys His Glu Ser Trp Cys
1 5 10

<210> 19
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antigenic determinant peptide

<400> 19
Thr Lys Thr Leu Ile Tyr Gln Gly Ala
1 5

<210> 20
<211> 18
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:gp120 v1 region
(residues 112-120) of HIV1-U16374 primary isolate

<400> 20
Gly Thr Lys Thr Asn Asn Ser Ser Gly Lys Leu Ile Glu Leu Gly Glu
1 5 10 15

Ile Lys

<210> 21
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<220>
<223> Description of Artificial Sequence:gp120 C2 region (residues 198-205) of HIV1-U116077 primary isolate

<400> 21
Leu Lys Cys Asn Asp Lys Lys Phe Cys Gly Lys Gly
1 5 10

<210> 22
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:gp41 (residues 602-605) of HIVANT70 primary isolate

<400> 22
Cys Lys Gly Lys Leu Val Cys Tyr Thr Ser
1 5 10

<210> 23
<211> 9
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<220>
<223> Description of Artificial Sequence:conserved gp41 domain consensus from HIV subtypes G and D

<400> 23
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<210> 24
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<220>
<223> Description of Artificial Sequence:conserved gp41 domain consensus from HIV subtypes F and A

<400> 24
Ser Gly Lys Leu Ile Cys Thr Thr Asn
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<210> 25
<211> 9
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<220>
<223> Description of Artificial Sequence:conserved gp41 domain consensus from HIV subtype E

<400> 25
Ser Gly Lys Ile Ile Cys Thr Thr Ala
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<210> 26
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<212> PRT
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<220>
<223> Description of Artificial Sequence:conserved gp41 domain consensus from HIV subtypes C and B

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Ser Gly Lys Leu Ile Cys Thr Thr Ala
1 5

<210> 27
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<220>
<223> Description of Artificial Sequence:p32 epitope with no obvious sequence homology with HIV protein domains

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<210> 28
<211> 9
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<220>
<223> Description of Artificial Sequence:p287 epitope with no obvious sequence homology with HIV protein domains

<400> 28
Cys Ala Gly Gly Leu Thr Cys Ser Val
1 5

<210> 29
<211> 10
<212> PRT
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<220>
<223> Description of Artificial Sequence:p335 epitope
with no obvious sequence homology with HIV protein
domains

<400> 29
Ser Gly Arg Leu Tyr Cys His Glu Ser Trp
1 5 10

<210> 30
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence:p483 epitope
with no obvious sequence homology with HIV protein
domains

<400> 30
Phe Ala Ser Leu His Tyr Asp Lys Pro
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<210> 31
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determinant peptide

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<223> Xaa = any amino acid not identical to the amino
acid naturally flanking the subsequence at positions
46-54 in HIV-1, may be present or absent

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<223> Xaa = any amino acid not identical to the amino
acid naturally flanking the subsequence at positions
46-54 in HIV-1, may be present or absent

<400> 31
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Ser Ser
35 40 45

Gly Lys Leu Ile Ser Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa

<210> 32
<211> 99
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<220>
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<223> Xaa = any amino acid not identical to the amino acid naturally flanking the subsequence at positions 46-54 in HIV-1, may be present or absent

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<400> 32
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Asn Gly
35 40 45

Arg Leu Tyr Cys Gly Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa

<210> 33
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46-54 in HIV-1, may be present or absent

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acid naturally flanking the subsequence at positions
46-54 in HIV-1, may be present or absent

<400> 33
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Thr Lys
35 40 45

Leu Val Cys Phe Ala Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa

<210> 34
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recognized by 2F5 monoclonal antibody

<400> 34
Glu Leu Asp Lys Trp Ala
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